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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,014	03/11/2004	Michel Brun	CELA:115	3915
²⁷⁸⁹⁰ STEPTOE & JO	7590 10/04/200 OHNSON LLP	EXAMINER		
1330 CONNEC	CTICUT AVENUE, N.	TRAN, BINH Q		
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			3748	
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			MAIL DATE	DELIVERY MODE
			10/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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,	Application No.	Applicant(s)		
	10/797,014	BRUN ET AL.		
Office Action Summary	Examiner	Art Unit		
The MAN INC DATE AND	BINH Q. TRAN	3748		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the (correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pre			
Disposition of Claims				
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or				
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 03/11/2004.	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date		

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. More specifically,

- In claims 1-7, lines 1-2, the use of alternative expression "and/or" renders the claims indefinite because the expressions on either side of the "and/or" are not considered equivalent and cause uncertainty with respect to the scope of the claims.

The claims not specifically mentioned are indefinite since they depended from one of the above claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

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international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-7 are rejected under 35 U.S.C. 102 (b) as being anticipated by Woodland (Patent Number 4,931,026).

Regarding claim 1, Woodland discloses a dilution and dispersion device (e.g. 10) for the exhaust and/or cooling gases of a vehicle's engine, that incorporates blades (e.g. 18, 23, 25, 28) and a hub (e.g. 11, 16, 26, 22), wherein said hub of said device incorporates means intended to reduce the loss in the gaseous flow rate generated by said gases (e.g. See Figs. 1-4; col. 3, lines 22-67; col. 4, lines 1-25).

Regarding claim 2, Woodland further discloses wherein said flow rate loss reduction means are constituted by one or several openings in said hub (e.g. See Figs. 1-4; col. 3, lines 22-67; col. 4, lines 1-25).

Regarding claim 3, Woodland further discloses wherein the number of said openings (Fig. 4) (e.g. 20, 31, 36), their diameter and their arrangement are determined according to the permeability which said device is to be given (e.g. See Figs. 1-4; col. 3, lines 22-67; col. 4, lines 1-25).

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Regarding claim 4, Woodland further discloses wherein said flow rate loss reduction means are constituted by a profiled element allowing said gases to be defected towards said blades (e.g. See Figs. 1-4; col. 3, lines 22-67; col. 4, lines 1-25).

Regarding claim 5, Woodland further discloses wherein said blades are fastened to a ring (e.g. See Figs. 1-4; col. 3, lines 22-67; col. 4, lines 1-25).

Regarding claim 6, Woodland further discloses wherein said ring is free to rotate with respect to said hub (e.g. See Figs. 1-4; col. 3, lines 22-67; col. 4, lines 1-25).

Regarding claim 7, Woodland further discloses wherein said ring is integral with said hub (e.g. See Figs. 1-4; col. 3, lines 22-67; col. 4, lines 1-25).

Claims 1-7 are rejected under 35 U.S.C. 102 (b) as being anticipated by Vallance (Patent Number 4,352,638).

Regarding claim 1, Vallance discloses a dilution and dispersion device (e.g. 38) for the exhaust and/or cooling gases of a vehicle's engine, that incorporates blades (e.g. 120) and a hub (e.g. 122, 124), wherein said hub of said device incorporates means intended to reduce the loss in the gaseous flow rate generated by said gases (e.g. See Figs. 5-9; col. 5, lines 27-67; col. 6, lines 1-55).

Regarding claim 2, Vallance further discloses wherein said flow rate loss reduction means are constituted by one or several openings in said hub (e.g. See Figs. 5-9; col. 5, lines 27-67; col. 6, lines 1-55).

Regarding claim 3, Vallance further discloses wherein the number of said openings (Fig. 5) (e.g. 47), their diameter and their arrangement are determined according to the permeability which said device is to be given (e.g. See Figs. 5-9; col. 5, lines 27-67; col. 6, lines 1-55).

Regarding claim 4, Vallance further discloses wherein said flow rate loss reduction means are constituted by a profiled element allowing said gases to be defected towards said blades (e.g. See Figs. 5-9; col. 5, lines 27-67; col. 6, lines 1-55).

Regarding claim 5, Vallance further discloses wherein said blades are fastened to a ring (e.g. See Figs. 5-9; col. 5, lines 27-67; col. 6, lines 1-55).

Regarding claim 6, Vallance further discloses wherein said ring is free to rotate with respect to said hub (e.g. See Figs. 5-9; col. 5, lines 27-67; col. 6, lines 1-55).

Regarding claim 7, Vallance further discloses wherein said ring is integral with said hub (e.g. See Figs. 5-9; col. 5, lines 27-67; col. 6, lines 1-55).

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Van der Woude (Pat. No. 4875829), Heath (Pat. No. 5542249), Torkelson (Pat. No. 4909346), Kim (Pat. No. 6158412), and Kim (Pat. No. 7104251) all discloses an exhaust gas purification for use with an internal combustion engine.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The

examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (571) 273-8300 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

September 28, 2007

Binh Q. Tran

Patent Examiner

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